

01/09/14 Agenda

- Review Homework
 - Worksheet 5.3 day 5 - Graphing from a Table
- Section 5.3 day 6 - Graphing with Slope-Intercept Form
- Homework Worksheet 5.3 day 6

5.3 day 6 - Graph Equations in Slope-Intercept Form

Target 5D

January 09, 2014

Goal: Graph an equation in slope-intercept form.

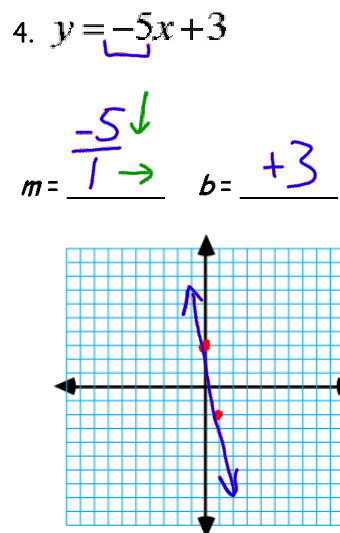
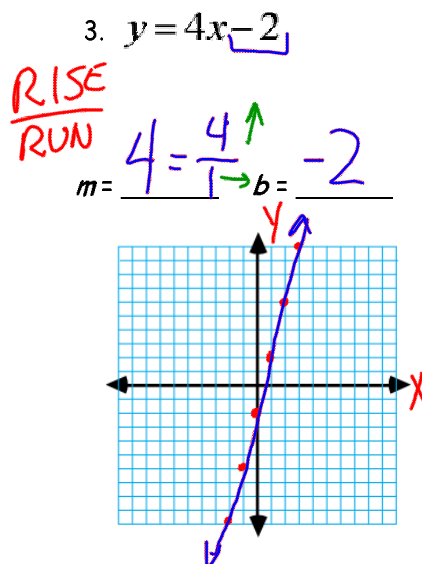
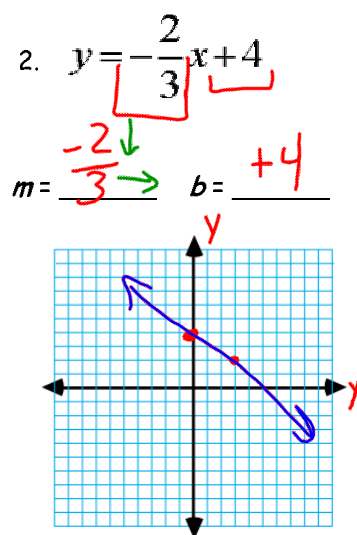
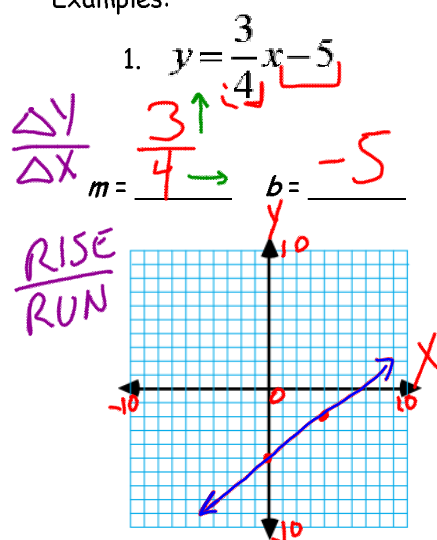
Remember, the slope-intercept form of an equation is:

$$y = \underline{m}x + \underline{b} \quad \text{Where } \underline{m} \text{ is the slope and } \underline{b} \text{ is the y-intercept}$$

Steps when graphing:

1. Plot the y-intercept (b)
2. Plot the slope
 - positive (go up and to the right)
 - negative (go down and to the right)

Examples:



5.3 day 6 - Graph Equations in Slope-Intercept Form

Target 5D

January 09, 2014

Goal: Graph an equation in slope-intercept form.

Remember, the slope-intercept form of an equation is:

$$y = mx + b \quad \text{Where } m \text{ is the slope and } b \text{ is the y-intercept}$$

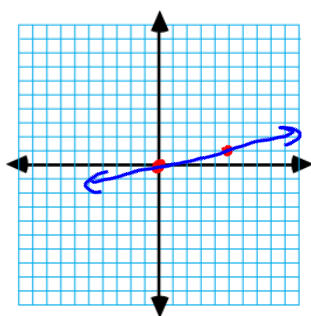
Steps when graphing:

1. Plot the y-intercept (b)
2. Plot the slope
 - positive (go up and to the right)
 - negative (go down and to the right)

Examples:

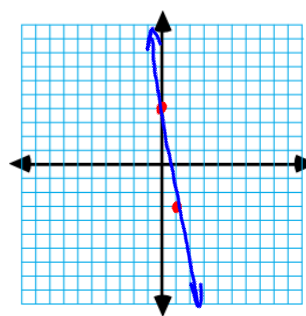
5. $y = \frac{1}{5}x + 0$

$m = \frac{1}{5}$ $b = 0$



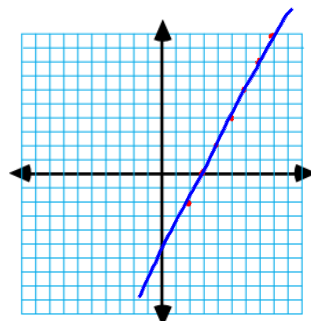
6. $y = -7x + 4$

$m = -7$ $b = 4$



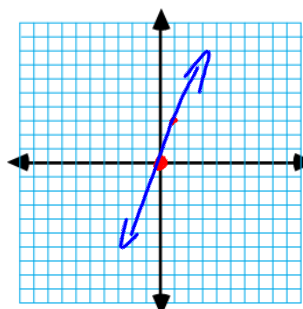
7. $y = 2x - 6$

$m = \frac{2}{1}$ $b = -6$



8. $y = 3x + 0$

$m = \frac{3}{1}$ $b = 0$



5.3 day 6 - Graph Equations in Slope-Intercept Form

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Goal: Graph an equation in slope-intercept form.

Remember, the slope-intercept form of an equation is:

$$y = mx + b \quad \text{Where } m \text{ is the slope and } b \text{ is the y-intercept}$$

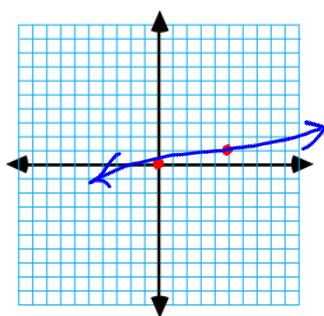
Steps when graphing:

1. Plot the y-intercept (b)
2. Plot the slope
 - positive (go up and to the right)
 - negative (go down and to the right)

Examples:

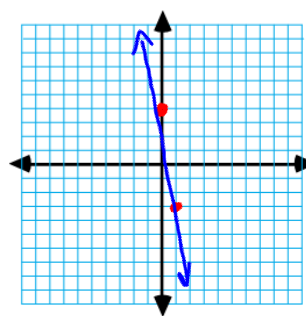
5. $y = \frac{1}{5}x + 0$

$m = \frac{1}{5}$ $b = 0$



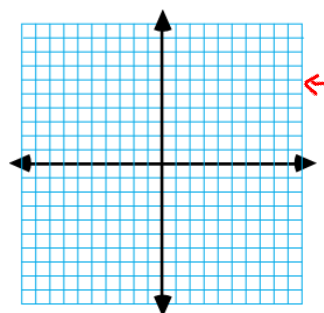
6. $y = -7x + 4$

$m = -7$ $b = 4$



7. $y = 2x - 6$

$m =$ $b =$



8. ~~$y = 5x$~~ $y = \frac{5}{4}x + 8$

$m = \frac{5}{4}$ $b = +8$

